SPECIAL BRANCH
POLICE HEADQUARTER, M.P., BHOPAL

NO. SB / Store/Singhasth//2015-24 (596), Bhopal, Dated 4-6- 2015

E-Tender Notice

e-tenders are invited by Director General of Police from manufactures/ suppliers of the following items on website https://www.mpeproc.gov.in :-

SN	Item	Quantity
1	Deep Search Metal Detector (DSMD)	25
2	Non Linear Junction Detector (NLJD)	25
3	Explosive Detector	25
4	Water Jet Bomb Disrupter	25
5	Remote Operated Wire Cutter (ROWC)	25
6	Bomb Blanket	25
7	Real Time Viewing System(RTVS)	25
8	Bomb Suit	25
9	Hook & Line Set	20
10	RSP Tool Kit	25
11	Car Remote Opening Tool set (CROT Set)	25
12	Prodder	80
13	Extension Search Mirror	80
14	Search Light LED	90
15	Under Vehicle Search Mirror	32
16	BDDS Vehicle	25
17	Contra Band Detector	25
18	Optical Fiber Scope	25
19	Barricading Tape	5000 Mtr.
20	Baggage Scanner	15
21	Vehicle Mounted Baggage Scanner	4
22	Hand Held Metal Detector (HHMD)	725
23	Door Frame Metal Detector (Portable)	460
24	Multi Zone Door Frame Metal Detector	15
25	Pre Fabricated Security Cabin	20
26	Range Finder	30

1. Cost of tender documents is Rs. 100/- (Rupees One hundred only) (Tender fee) which is non refundable and cannot be exempted in any condition. Must be paid online at the time of filling e-tender under Head "**0055- Police Miscellaneous Receipt**"..
2. Tender documents can be download from the website of MP Police (www.mppolice.gov.in)
3. The Tender submitted online on website https://www.mpeproc.gov.in and sealed Tender also be submitted in hard copy at the office of A.I.G S.B. (G) M.P. Bhopal within scheduled date and time.
4. **Tender Schedule** :

No.	Tender Activity	Date & Time
i	Last date of purchase e-Tender document	20/07/2015 up to 1200 hrs.
ii	Last date of online e-Tender submission	20/07/2015 up to 1700 hours.
iii	Last date of submission of bid in Hard copy	22/07/2015 up to 1700 hours.
iv	Bid will be opened on	23/07/2015 at 1200 hours.
v	Demonstration from	05/08/2015 to 07/08/2015

Asstt. I.G. of Police
Special Branch (G) M.P. Bhopal

विशेष शाखा पुलिस मुख्यालय
मध्यप्रदेश भोपाल

NO. SB / Store/Singhasth//2015-24 (596), Bhopal, Dated 4-6-2015

ई–निविदा सूचना

पुलिस महानिदेशक,म.प्र. द्वारा निम्नांकित सामग्री के लिये निर्माता/प्रदायकर्ताओं से ई–निविदा के माध्यम से website https://www.mpeproc.gov.in निविदाएं आमंत्रित की जाती है :–

स.क्रं.	सामग्री	संख्या
1	डीप सर्च मेटल डिटेक्टर (DSMD)	25
2	नान लिनियर जंक्शन डिटेक्टर (NLJD)	25
3	एक्सप्लोसिव डिटेक्टर	25
4	वाटर जेट बम डिसरप्टर	25
5	रिमोट ऑपरेटेड वायर कटर (ROWC)	25
6	बम ब्लेंकेट	25
7	रियल टाइम वीविंग सिस्टम (RTVS)	25
8	बम सूट	25
9	हुक एण्ड लाईन सेट	20
10	आर.एस.पी.टूल किट	25
11	कार रिमोट ओपनिंग टूल किट (CROT Set)	25
12	प्रोडर	80
13	एक्सटेंशन सर्च मिरर	80
14	सर्च लाईट एल.ई.डी.	90
15	अंडर व्हीकल सर्च मिरर	32
16	बी.डी.डी.एस. व्हीकल	25
17	कांट्रा बैण्ड डिटेक्टर	25
18	ऑप्टिकल फाइबर स्कोप	25
19	बेरीकेडिंग टेप	5000 Mtr.
20	बैगेज स्केनर	15
21	व्हीकल माउण्टेड बैगेज स्केनर	4
22	हैण्ड हेल्ड मेटल डिटेक्टर (HHMD)	725
23	डोर फ्रेम मेटल डिटेक्टर (Portable)	460
24	मल्टी जोन डोर फ्रेम मेटल डिटेक्टर	15
25	प्री फेब्रीकेटेड सिक्यूरिटी केबिन	20
26	रेंज फाइंडर	30

1. निविदा फार्म (दस्तावेज) हेतु प्रत्येक आयटम के लिए **रूपये 100/– निविदा शुल्क निर्धारित है जो वापसी योग्य नहीं है एवं निविदा शुल्क से किसी भी स्थिति में छूट नहीं दी जायेगी। निविदा शुल्क की राशि** online लेखा शीर्ष **"0055 पुलिस मिसलेनियस पुलिस रिसीप्ट"** में ई–निविदा के साथ ही जमा कराई जावे।

2. निविदा फार्म (दस्तावेज) मध्यप्रदेश पुलिस की वेबसाइट www.mppolice.gov.in पर भी उपलब्ध है, जिसे डाउन लोड किया जा सकता है।

3. निविदा फार्म online वेबसाईट https://www.mpeproc.gov.in पर एवं उसकी सीलबंद निविदा की हार्ड कापी सहायक पुलिस महानिरीक्षक, वि.शा.(जी),म.प्र. भोपाल के कार्यालय में निर्धारित तिथि एवं समय पर जमा कराई जावे।

4. **निविदा समय सारणी:**

No.	Tender Activity	Date & Time
i	Last date of purchase e-Tender document	20/07/2015 up to 1200 hrs.
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सहायक पुलिस महानिरीक्षक,
विशेष शाखा (जी) म.प्र.भोपाल

Check List

(**To be submitted with First Page in Technical Bid Compulsory**)

Name of Firm :

Name of Item :

S. No.	Description	Details	Page No.
1	Tin No.		
2	Firm's Registration & Certificate Date		
3	EMD		
4	Challan/DD No. (Tender Fee)		
5	Acceptance of all terms & Conditions of the Tender		
6	Tender Form		
7	Separate Technical Bid & Commercial Bid		
8	Income Tax clearance certificate with copy of I.T. Returns		
9	PAN Number		
10	Sale Tax Clearance Certificate		
11	Turnover 2011-12 2012- 13 2013-14	 Rs. Rs. Rs.	
12	Authorization /OEM Cert. of the item		
13	SSI/NSIC/DGS & D Reg. certificate for exemption		
14	Previous Supply order		
15	Spec. Compliance Sheet		

Note: Compliance Statement for each item(Bidder need to attach with technical Bid and one set extra provide on date of demonstration)

Item Name: ---- Make --- Model No.-----

S.No.	Description	Compliance	Remark	Bid page no. & row no.

Seal and signature

Proforma for Financial Bid

No.	Name of Items	Make/ Model No.	Unit Rate	Duty %@	Tax %@	Total	Qty.	Total Cost

Also see terms & condition S.No. 7

MADHYA PRADESH POLICE HEADQUARTER, BHOPAL

ANNEXURE "B"

Tender Notice No. SB/Store/Singhasth/2015-24 (596) Bhopal, Dt 4-6-2015

TENDER FORM

(i) Tender for supply of ----------

(Mention the name of the articles for which the tender is submitted)

(ii) Name and full address of the Firm submitting the tender.

(iii) Address to :- The Asstt. I.G. of Police, Special Branch (G), M.P., Bhopal.

(iv) Reference :- This is with reference to tender No. …….. Date ……

(v) Tender fee amounting to Rs.100/-(hundred) only has been deposited vide e-Challan No.……. Date ……

(vi) We agree to abide by all conditions mentioned in Tender Notice No. ……

Specific by the A.I.G. of Police, (G) M.P., Bhopal and also the General Terms and conditions as annexed with said Tender Notice and as given in the attached sheets, all the pages of which have been signed in the margin by us in tokens of our acceptance of the terms and conditions, therein.

(vii) Our rates for the supply/ FOB of …… are as under :-

(Mention the name of the article and its quantity of which tender is submitted rate quoted should be in figures as well as words. Rates of the articles should be shown in financial bid only not in technical bid.)

1.

2.

3.

(viii) We further agree to deliver mentioned stores within a period of …… days from the date of the receipt of firm order.

(ix) We confirm the rates quoted above are valid up to one year from the date of submission of tender.

(x) Draft No. …….. Dated ……for Rs. ……(in words Rs.....) favor of the A.I.G.Police,S.B. (G), PHQ, Bhopal on ---------- (Mention the name of the bank) is enclosed herewith to cover earnest money shown in the Tender notification published in various news papers and www.mpolice.gov.in and online website- https://www.mpeproc.gov.in .

Date :

Place:

Signature of the Proprietor/Manager
Representative of the firm on
behalf of the Firm giving tender

POLICE HEAD QUARTER, MADHYA PRADESH, BHOPAL

Tender application form

(To be filled up by the tendrer)

1	Name & Full Address of the firm:	
2	Registered Office with Address (Copy of registration certificate of firm may be enclosed)	
3	Income Tax PAN no.	
4	Tin No.	
5	Sales tax Clearance Certificate of last financial year	
6	Weather proprietorship / limited company or pvt. ltd. or partnership	
7	If Single Proprietor, Name & Address of the Proprietor.	
8	If Partnership Firm, Name & Address of the Partner.	
9	If Private limited or Public company, then name & Address of directors.	
10	Whether you have any shop or establishment in M.P. If so detailed Addresses of the same.	
11	Name & Addresses of the persons who will face represent the firm while dealing with the Police Head Quarters.	
12	Turnover for the last three years. (Attach only CA certificate)	2011-12 2012-13 2013-14
13	Supplies to Govt. Department in last financial year.	

SIGNATURE OF THE TENDRER WITH SEAL

SPECIAL BRANCH POLICE HEAD QUARTER M.P. BHOPAL

GENERAL TERMS AND CONDITIONS OF TENDER

1. Tenderer(s) shall submit firm Registration number & certificate, Sales Tax Registration Certificate Number, TIN Number and previous Sale Tax Clearance Certificate / no dues certificate of value added tax from the concerned assessing authority, Income Tax Clearance Certificate, IT return & PAN Number, along with the tender, without which the tender may not be considered.

2. Each tender bid shall comprise of
   Technical bid
   Commercial bid

3. Technical bids and Commercial bids shall be in separate and sealed envelopes **for each item,** addressed to The Asstt. I.G. of Police, Special Branch, (G) M.P. Bhopal and super-inscribed "Technical bid: to be opened by addressee only" and "Commercial bid: to be opened by addressee only" on the top of the envelopes containing the tender. The word "Tender For (mention the name of the article for which the tender is submitted)" should be super-inscribed. On the left side near the lower corner of the envelope, the address of the tenderers should be written.

4. e- offers prepared in accordance with the procedures enumerated in this document should be submitted online on website " https://www.mpeproc.gov.in", and also submit a hard copy in the office of The Asstt. I.G. of Police, (G) Special Branch, Bhopal M.P. not later than the given date and time. Tender fee Rs. 100/- for each items must be paid under Head "**0055- Police Miscellaneous Receipt**" online at the time of filling e-tender. Bid without Tender fee, will be treated as rejected. Tender form can also be by downloaded from the website of MP Police "www.mppolice.gov.in".

5. The rate / unit must not be altered under any circumstances and the rates must be entered in words as well as in figures.

6. The tender shall remain valid for the acceptance only in the financial year for which it has been invited. Conditional tender shall not be entertained.

7. All rates quoted in the tender must be based on free delivery in good condition, securely packed and F.O.R. destination being Stores, Special Branch, M.P. Bhopal or various units in the state. The rates should be inclusive of all taxes (taxes & duties should be shown separately). In case of local suppliers no cartage shall be paid by the Government and the delivery of goods shall have to be given at the premises of the Stores, Special Branch, M.P. Bhopal /District/Units during working hours. The supplier shall be required to bear all risks of loss, leakage or damage and shall deliver the goods in good condition to the consignee at the destination mentioned in the order.

8. Rate for all articles having difference in size should be quoted as size wise rates. If the rate varies on the basis of make, model & platform should be clearly quoted separately.

9. The tenderer should sign the tender form, copy of the general terms and conditions at each page and also at the end in token of the acceptance of all the terms and conditions of the tender and specification also.

10. In case of imported equipment, their cost and custom duty should be mentioned separately. In case of custom duty exemption from Govt. of India, the certificate can be provided for the same by department. Tenderers must be ensured that items are whether custom duty exempted or not as per serial no. 20(a) of specific clause of Notification No. 39/96-Cus dated 23-07-96 under which CDEC is being sought for.

11. Rates of Goods/Items must be mentioned only in Indian Currency. Department shall not be responsible for any variation in the rates of foreign currency *vis-a vis* Indian currency. No correspondence in this regard entertained.

12. Technical bid should include information related to all specification sought by us. It should also contained company brochures of all equipments applied for and should have the relevant technical documents issued by the manufacturer in support of specification asked for.
13. Tenderer shall submit the deviation chart in relation to the specification of all equipments ask for.

Tenderer must submit the details of compliance of specifications of proposed item along with the name and make of models quoted in tender for supplies. For this purpose, a compliance sheet indicating page numbers of specification of proposed item with categorical 'Yes' or 'No' be mentioned.

14. Any special specification or advanced or additional feature of the items should be clearly mentioned in the specification sheet.

15. If the product is certified by recognized institution, relevant documents should be included in the technical bid.

16. If the items/products are certified by any authorized/recognized institution, tenderer should submit the related certification.

17. Tenderer should submit copy of supply order of other Police organization/Para military forces of last 5 years.

18. Tenderer must submit original authorization/ OEM certificate of concerning company for participating in the tender for a particular item. Photocopy of authorization certificate will not acceptable.

19. Tenderer should provide non blacklisting certificate for last two years.

20. Tenderer should mention their name, address phone/fax numbers of authorized service centers in the technical bid.
21. Minimum yearly turnover of the firm in last three years should be approximately 30% of the project cost.

22. Firms should submit only required documents in the technical bid. **Numbering of all the pages** of technical bid **is compulsory**. Checklist of all the important documents should also be enclosed in technical bid.

23. Technical bid of each tender must be accompanied by an earnest money deposit of **3% of the total cost** of the intended supply as per rates quoted in the tender. Earnest money has to be deposited for each item separately by means of Bank Drafts /Deposit/ Bank guarantee Receipts in favour of A.I.G. of Police Special Branch, (G)M.P. Bhopal. The earnest money shall remain deposited in the office till the final decision on the tenders received is taken by the Director General of Police, MP, Bhopal. The police department will pay no interest on such security amount. **Cheques will not be accepted.**

24. No adjustment of earnest money out of pending bills amount will be allowed. The tenders received without earnest money or with less than prescribed earnest money will not be considered.

25. After the final decision on the tenders, the earnest money of tenderers whose tenders have not been accepted shall be refunded. The earnest money of those tenderers whose tenders have been accepted shall be treated as security. The successful tenderer should also deposit additional 7% of the total cost of items, within 15 days of receipt of supply order. Thus total 10% of the cost of items deposited shall be treated as security deposit against supply order for the **warranty period as mentioned in specification of equipments.**

26. M.P. Laghu Udyog Nigam Ltd. and the Small Scale Industries registered with the Director of Industries, MP or National Small Industries Corporation Ltd (NSIC) or with the D.G.S.&D., are exempted from payment of earnest money/Security deposit under the explicit order(s) of the government Tenders from such units whose competency is certified by the Director of Industries, MP or NSIC or D.G.S.& D. can be accepted without security deposit and can be eligible for price preference as may be prescribed by the State Government of MP, from time to time. In such case a competency certificate issued by the Director of Industries, MP or NSIC or D.G.S.& D. valid for the period of tender must accompany the tender in support of each item.

27. No exemption from depositing earnest money shall be granted to any firm which is not registered with Commissioner Industries of Madhya Pradesh or NSIC or DGS&D for that purpose.

28. Samples of the items whose cost is more than Rs.10,000 (Rupees Ten thousand only) need not be submitted. Instead, presentation/demonstration of these items may be mandatory at a date and place as intimated for this purpose.

29. No certificate will be provided to import any equipments/ items for demonstration purposes.

30. **Demonstration Programme** :-
Demonstration of the items will be in **S.B. PHQ Bhopal on 05-08-2015 to 07-08-2015.**

31. The commercial bid shall be assessed only after found suitable in technical demonstration. Information of financial bid opening will be intimated later.

32. The tenderer shall be deemed to have carefully examined the condition / specifications etc. of the goods/ items to be supplied.

33. The quantities shown in the tender notice are approximate and can be increased / decreased as per requirement. The supplies shall be made according to the requirements of the department.
34. Tenderer shall not assign or sublet his contract or any part thereof to any other agency.

35. All goods/materials/items supplied shall be new and of best quality in every respect and as per the standards wherever applicable.

36. The Director General of Police reserves the power to relax or exempt any of the conditions of the tender for the reasons recorded for granting such exemption/relaxation.

37. In case goods/items other than those of the approved quality, make or size are supplied, they will be rejected and will have to be replaced within the period prescribed for the completion of the order by the supplier without extra cost. Any expenses or loss caused to suppliers as a result of rejection or replacement of supplies shall be entirely at the tenderer's cost. Any loss caused to the department or any expenses incurred by the department in this shall be recoverable from the tenderer.

38. The rejected articles must be removed by the tenderer from the Stores, Special Branch, M.P. Bhopal within 15 days of the date of information of rejection. The In-charge Stores will be responsible for any loss, damage and shortage that may occur to them while they are in the premises of Stores, Special Branch, M.P. Bhopal for the stipulated time. If tenderer does not remove rejected articles within 15 days of rejection, tenderer will be responsible for any loss, damage and shortage to such rejected articles. Further, a demurrage charge shall be calculated and paid similar to the penalty clauses, on the cumulative value of the goods rejected and on a period calculated from the date of the letter intimating the rejection of sub-standard goods supplied.

39. Failure of the supplier to collect the rejected goods within six months from the date of intimation thereof, would render such goods liable for forfeiture, and the department shall be free to dispose of such goods in the manner deemed fit by the Director General of Police, MP

40. The Director General of Police, MP Bhopal or his duly authorized representative shall have access to the suppliers premises and shall have the power to inspect and examine the materials and workmanship of goods.

41. The tenderer shall be responsible for the proper packaging of the goods so as to avoid damages under normal conditions of transport by sea, rail, road or air and for delivery of the material in good conditions to the consignee at destination. In the event of any loss, damage, breakage, leakage or any shortage tenderer shall be liable to make good of such loss and shortage found at the time of checking/inspection of the materials by the consignee, No extra cost on such account shall be admissible to him.

42. The successful tenderer shall arrange supplies of goods - in the specific terms and conditions of the supplies and at the place of destination, within 60 days from the date of placing the order. The date of placing the order shall be the date of dispatch of order or the delivery thereof to the tenderer when such order is being delivered through some person. This condition will apply to LUN and other government agencies as well.

43. In case of repeat purchase order the supply period will be 45 days.

44. If the supplier firm fails to supply goods within stipulated delivery period then the supplier order stands cancelled and the security deposit shall be forfeited by the department. In addition, the supplier firm shall be blacklisted for a definite period to be decided by the department, during which no supply order would be given to the blacklisted firm by the police department.

45. After the expiry of the stipulated delivery period, which include extension period if any, no item shall be accepted by the department under any circumstances.

46. The goods shall be delivered at the destination in perfect condition. The supplier if so desires, may insure the valuable goods against loss by theft, destruction or damage by fire, flood, undue exposure to weather or otherwise. The expenditure thereon shall be borne by the supplier.

47. The number of samples required for destructive testing has to be supplied by the supplier in addition to the quantity mentioned in the purchase order at its own cost as per the testing norms. The samples shall be picked up randomly for testing purpose.

48. The supplier shall bear commission charges on remittances made in settlement of their claims.

49. The contract of supply can be repudiated at any time if the supplies are not made to the satisfaction of the Director General of Police, MP.

50. Neither Railway Receipt will be accepted by VPP nor freight to pay Railway Receipt will be accepted.

51. The tenderer shall invariably furnish complete address of the premises of his office, godown and workshop, together with full name, phone nos. and address of the person who is to be contacted, for the purpose where inspection can be held.

52. After the expiry of the stipulated delivery period, which includes delivery extension period if any, the supplier shall be liable to pay the penalty – which shall be deducted from the payment due to him at the rate of 0.25% of the total amount per week. If the supplier firm fails to supply all the items within stipulated delivery period then the supplier order stands cancelled for the remaining items and the security deposit shall be forfeited by the department. In addition the supplier firm shall be blacklisted for a definite period to be decided by the department, during which no supply order would be given to the blacklisted firm by the police department

53. If the goods are supplied after the stipulated date then for the purpose of computing penalty, the week shall be counted as if the supply was made on the last day of that week. For example, if the supply of goods is made after the delay of 06 weeks and 4 days then the penalty shall be computed for 07 weeks of delay, i.e., 1.75 % of the total cost.

54. Payments would be made only after the receipt of all the items ordered in the supply order. In cases where part supply has been made and the supply order for the remaining items has been cancelled, payment would be made for the supplied items after deducting the penalty as 5% of the value of the non-supplied items.

55. If the tenderer is unable to complete the supply or fails to comply with the terms and conditions of the tender within the specified or extended period, the DGP, MP shall be at liberty to arrange supply either through re-tender or otherwise. The Director General of Police may give seven days notice in writing to the approved supplier to complete the supplies or make good the failure, neglect or contravention complained of. If the contractor fails to comply with the notice within seven days of the date of the service, and if the Director General of Police thinks fit, he may direct the supplier to make good the loss sustained or any expenditure incurred by the Government in arranging the

suppliers through any other agency. He may also use the earnest money / security deposit of the contractor to make good such a loss.

56. The supply period and penalty on purchase order of imported/ foreign goods will be imposed and decided based on the facts & circumstances and nature of the goods. The Director General of Police reserves the right to take the final decision.

57.The successful tenderer shall execute an agreement on a non judicial stamp of Rs.100/- or of such value as may be prescribed by the law on the subject for contract deeds in the prescribed form, within 15 days from the date he is informed of the acceptance of his tender for the due performance of the contract. In case of failure of the execution of agreement within the specified period, the order is liable to be cancelled. The expenses on completion and stamping the agreement shall be borne by the supplier who shall furnish free of charge copy of the agreement duly executed and stamped to the Director General of Police, M.P., the other copy should be without non judicial stamp.

58. No advance payment shall be made except in very rare and special cases for which reasons shall be recorded in writing. Payment shall be due and payable by the Director General of Police, MP, Bhopal on behalf the Governor only when the supplied quantity has been delivered, inspected and accepted by the Technical committee appointed by the Director General of Police, MP, Bhopal and certificate of having done so is recorded by the committee. In case of disputed items 10 to 25 % of the amount shall be withheld and shall be paid on settlement of the dispute items of the award granted progressive payments if agreed to, will be made according to the terms entered in the agreements.

59. Upon breach of any of the General Terms and Conditions of contract and breach of the agreement by the supplier, it will be lawful for the department to forfeit the Earnest money/ Security Deposit in whole or part, or impose such penalty as deemed fit and recover the same from the Security Deposit or from any other payment to be made to the supplier or in any other manner as the deemed fit by the department, but without prejudice to right of the department to recover any further sum of money as damages from the supplier.

60 Direct or indirect canvassing on the part of tenderers or their representatives will disqualify their tenders.

61. The Director General of Police, MP, Bhopal reserves the right to accept any tender, not necessarily the lowest tenders and reject any tender, without assigning any reasons thereof. Orders can be placed for the whole or part of the quantity or article for at the discretion of the Director General of Police, MP, Bhopal.

Seal and signature of proprietor/
manager representative of the firm
on behalf of the firm giving tender

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL
B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)
SPECIFICATION OF
DEEP SEARCH METAL DETECTOR (D.S.M.D)

Antenna

- Frequency Range (typ.): 300-1300 MHz
- Peak Frequency: 500 MHz
- Pulse Duration (typ.): 0.9 ns

Radar Controller Computer

- Processor: Multi-core 1.6 Ghz
- Memory: DDR2 256 MB
- Hard Disk (Program and Storage): Ruggedized Solid State 32GB
- Display: 10.4" Daylight Readable LED Color LCD
- Dimensions: 335mm x 235mm x 95mm
- Weight: approximately 5.0 kg
- Power Supply: 10.5-18VDC @ 25W
- Control: full screen menu system using touch screen interface. Optional use of full keyboard and mouse or remote control.
- **I/O Provision**
- Serial Port
- Radar Interface Port
- DC Power Port
- 2 USB 2.0 Ports
- **System Scan Modes**
- Maximum typical logging scan rate of 390 scans per second
- Trigger Modes: Free run, timed interval, shaft encoder, GPS, manual
- Nominal Sampling Rate: 1,000,000 samples per second
- Time Varying Gain Maximum: 40dB
- **System Environmental Specifications**
- Temperature: -11 deg. To 50 deg. C
- Humidity: non-condensing 0% to 90%
- Seals: IP 67
- **Radar Head Electronics Specifications**
- Total System Dynamic Range: >130 dB
- Receiver Dynamic Range: >90 dB
- Time Range Minimum: 6.3 ns
- Time Range Maximum: 820 ns
- Pulse Repetition Time: 1 us
- Effective Bandwidth (typ.): 3 GHz
- Stacking: Automatic
- Dimensions: 290mm x 210mm x 85mm
- Weight: 2 kg. / 4.4 lbs.

GPS: Integrated support for built-in GPS, or external GPS

	via USB/serial port (NMEA 0183 protocol)
Power supply:	Internal 12V/20.8 Ah Li-Ion battery, or any external 10-15V DC source
Charger:	Internal. Unit can also be charged from any external 12 - 15V DC source
Power consumption:	1.3 – 2.0 A
Operating time:	8 – 10 h
Certification	CE/ UL certificate required
Warranty	3 years

Daylight Readable Screen
Ruggedized, Dedicated Control Unit designed specifically for the Seeker
Integrates with most GPS receivers on the market
User Friendly Touchscreen Interface
High Performance CPU enables nearly all processing to be done on-board in realtime
Onboard 3D viewing capable
2 USB Ports
Military Spec Connectors and Cables
Optional composite GPS pole mount enables GPS antenna to be centered above radar antenna
Battery Backs-2 included with each system for a typical total runtime of 10 hours and a typical lifetime of several years
Airless solid tires which cannot go flat require no maintenance
Hybrid composite/aluminum Trackercart is designed specifically for the Seeker. Is is balanced, maneuverable, and precisely designed to not interfere with the GPR signal
High Performance antennas require minimal processing enabling faster results
Optional Rough Terrain Attachment included in 500M configuration

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
NON LINEAR JUNCTION DETECTOR (N.L.J.D.)

Non Linier Junction Detector designed for search and detection of Electronic devices containing semi conductor components in powered or un powered modes.

Specification :

- It should have 2nd and 3rd harmonic detection between semi conductors and de-similar metals.

2- It should have clear display of individual and combined returns.

3- It should find concealed electronic devices active/passive.

4- It should detect electronic components i.e Diodes, Transistors and integrated circuits i.e. used to make electronic devices.

5- It should have auto setting facility.

6- It should not give false alarm.

7- Adjustable volume control of the alarm signal should be provided.

8- Should be able to operate in all climatic conditions.

9- Continuous time of operation not less than 4 hrs.

10- Output power should not exceed more than 4watts.

11- The connecting wires from power source to search head should be inbuilt.

12- Variable frequencies for detection of semi conductors, diodes etc.

13- Digital signal process for power output.

14- Carrying case- Hard Carrying case required for transportation.

15-Equipment should be one spare battery pack.

16-Certification CE / UL. Certificate Required

17- Warranty- 3 Years.

SPECIAL BRANCH, POLICE HEAD QUARTER BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
EXPLOSIVE DETECTOR

Portable & Hand held automatic rapid response, real time explosive detector for detection of explosive residues in gaseous (vapors) solid (particles) and liquid (solution) phases. Capable of detecting military and industrial explosives such as TNT, NG, PETN, RDX, C4 & their mixtures.

Specification :

1. PC compatible
2. False alarm rate less than 1%
3. Type of explosive detected displayed on LCD.
4. The detector should not require any gas carrier, calibration accessories or consumable.
5. The program capable of updating detection of new explosives as they become known.
6. Explosive detector should have built in rechargeable battery with one spare battery.

Technical Specifications

Sr. No.	Parameter	Description
1	**Detection Mode**	Vapors & Partcles
2	**Explosives Detection with Identification**	Identification of the detected substances either with their name or base chemical family.
3	**Sampling Technique**	Both Vapour and Particle mode.
4	**Warm-up time**	Less than 5 Minutes.
5	**Typical Operation Sensitivity**	Few substances up to pictogram and balance in nanogram ranges
6	**Analysis/response time**	10 Seconds
7	**Display/Alarm**	Visual display of the type of Explosive & its concentration. The ionogram is also displayed on the LCD.
8	**Computer Connectivity**	U.S.B. Connectivity
9	**Printer**	Through Computer
10	**Weight**	Hand Held Unit (Explosive Detctor) 1 to 1.5 Kgs

11	**EMI**	Operation is not affected by electro magnetic interference of other electronics / electrical devices.
12	**Operating /Storage Temp**	0 to 50^0C
13	**Humidity Range**	0-95%RH non-codensing
14	**Certification**	CE / UL Certificate Required
15	**Warranty**	3 Years

SPECIAL BRANCH, POLICE HEAD QUARTER BHOPAL
B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)
SPECIFICATION OF
WATER JET DISRUPTER

Bomb/IED water jet disrupter for the disruption of the thin wall IED. Device with a high probability of avoiding detonation/Explosion.

1.	Height	-	21 inches Approx.
2.	Length of Barrel	-	15 inches Approx.
3.	Width unfolded	-	21 inches Approx.
4.	Construction	-	Steel and aluminum
5.	Ignition voltage	-	12 to 24 volts
6.	Water load	-	200 ml approx
7.	Velocity	-	360m/sec. approx.
8.	Wire connection	-	Push Button.
9.	Power Source	-	Blasting machine
10.	Laser and bracket	-	Required.
11.	Disrupting capability	-	Effective range up to 3 mtr.
12.	Ammunition composition	-	Electrically primed brass case self contained with water seal.
13.	Ammunition cartridges Quantity	-	50 Nos.
14.	Steel slugs	-	10 Nos.

15. Equipment should be with RAM to reduce recoil effect.
16. Accessories
    1- The water jet disrupter should be supplied with all required accessories & tools.
    2- Technical manual giving full description of the equipment & instructional video DVD also required.
17. Warranty - Three years.

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
ROWC (REMOTE OPERATED WIRE CUTTER)

1	Equipment should be able to cut electric wire upto dia 5mm thickness. remotely from 100 meter distance.
2	Works on inbuilt SMF rechargeable battery with universal charger (70-240V, 50-60 Hz .
3	Comes with a cordless remote of minimum distance of 100 meters.
4	It's light weight, portable devise.
5	Self balancing tripod stand to stand on any type of hard/ soft ground.
6	360 degrees horizontal movement, with locking arrangement .
7	Option to adjust the y axis/ angle of the cutter upto 45 deg.
8	Operatable on both AC and DC.
9	Modular design, easy to carry.
10	Hard carring case required.
11	Warranty – three years.

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)
SPECIFICATION OF

BOMB BLANKET

The Bomb Blankets for use in public area to suppress the blast fragmentation. Bomb Blanket in conjunction with a blast containment ring.

- Blanket should have heavy duty nylon webbing handling straps which permit the safe placement over a explosive device.
- Spare and tools where applicable.
- User hand book
- Testing certificate required from authorized govt. agency
- During the demonstration Bomb blanket must be shown
- The bomb blanket should sustain blast & offer adequate protection against fragments **(V50, 17 grain steel fragment @ minimum 500 M/s).**
- The bomb blanket should be made with multiple layers of treated Aramid ballistic fabric & should confirm to the protection level required & then sewn into a fire retardant and water repellent cover of.
- The bomb blanket should have strong nylon web loops near the 4 corners or contain adequate number of eyelets of 1" dia along the sides of the bomb blanket for the purpose of and charge/suspension.
- Size of bomb blanket should be min. 150 cm x 150 cm, size of safety circle - 24" height 24" diameter with ceramic fabric.
- Weight of bomb blanket should be 15Kg.approx.
- Should be able to successfully contain a blast of minimum 100 gms. of RDX or equivalent quantity of other high explosive & 1 detonator.
- Warranty - 3 Years

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)
SPECIFICATION OF

RTVS (REAL TIME VIEWING SYSTEM)

A compact potable X-Ray computer based real time inspection system for the examination of suspect packages or other inaccessible areas where contraband may be hidden with X-Ray generator.

X-Ray generator-

Source size 2.2 mm nominal 10 pulses/second nominal.
Maximum pulse 3600 per hour
Pulse length 60 nano seconds
Output 1 mR @ 1/pulse w/filtration=2.5 mm alu
Radiation leakage 0.15 mR/100 pulses @ 12"
Penetration - 15 mm at least

Inspection system-

1. Operating System: Genuine Windows® XP Professional 64bit (English) or higher OS professional version
2. Open Office with Fire fox and Thunderbird
3. Processor: Intel(R) Core(TM) i7-620M Processor (4M Cache, 2.66 GHz) With Turbo Boost Tech
4. Display: 14" to 15" " Anti Glare High Definition WLED (1600x900) LCD display
5. Integrated 2.0MP Web Cam
6. ATI Mobility Radeon™ HD 5470 - 1GB
7. Anti Virus: Kaspersky/McAfee(R) Security - 36 Months Version
8. RAM: 4GB (2GBx2) 1333MHz DDR3 SDRAM (operates at 1066MHZ for Core i3/i5, and i7-620M processors)
9. Graphic Card: NVIDIA(R) NVS 3100M 512MB gDDR3
10. Hard Disk: 500GB 7200RPM SATA Hard Drive
11. Battery: Lithium Ion Battery.
12. Keyboard: Backlit Keyboard with Touchpad (English)
13. Wireless 365 Bluetooth Module 15.Wireless Internet (WiFi) Card
14. Combo Drive: DVD + /-RW Combo Drive
15. Adobe Reader Yes
16. AC Adapter

17. Integrated Fast Ethernet 10/100/1000
18. Power Cord (IND)

Video camera Unit

- 200x250 mm imaging area (Minimum)

  CCD camera 768 pixels 570 TV lines video signals to noise ratio better than 50 dB

  Power Source - 6 to 12 V De external or 2.30 V AC

  Internal battery & charger over 3 hours run time.
- To facilitate the offsite study, the system should be supported by a hardware and software capable of image recording on a storage media i.e. USB Port, DVD drive etc.
- The system should be able to store minimum 5000 images in its data base library
- The software should provide Image enhancement facilities as under :-
  - Pseudo coloring facility.
  - Brightness and contrast control
  - Split screen capability.
  - Sharpening of images.
  - Tilting/Rotation of an Image.
  - On screen measurement facility.
- For easy field use the system should be operated with rechargeable battery and should have additional facility of operating with AC Power supply. For minimum 05 hrs operations battery pack.
- The system should be protected by antivirus software to protect its stored data.
- All types of accessories, expandable and consumable items, connecting cables essential with one set of spare cables, operators Manual, Service Manual and Recovery software CD/DVD.
- Warranty 3 years

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
BOMB SUIT

The Bomb disposal suit should be given highest level of protection with the maximum comfort & flexibility to the user.

1) The suit consists of the following items:

a) Jacket with attached collar.
b) Trousers – adjustable.
c) Groin plate
d) Helmet and Visor
e) Air cooling blower and charger
f) Transit / carrying bag
g) Integral radio earphones and microphone in helmet (Wireless operation)

The protection performance figure should be for the Stanag 17-grain (NATo) fragment simulation Type 2v 50-

- Jacket Front, Chest – 1800 M/sec
- Jacket front groin – 1800 M/sec
- Sleeves – 560 M/sec
- Collar Front centre – 850 M/sec
- Collar side – 600 M/sec
- Integrated groin protector – 600 M/sec
- Trousers Front Thighs – 690 M/sec
- Trousers Front Shins – 620 M/sec
- Trouser Knee – 850 M/sec
- Boot Cover – 450 M/sec

2) The protection matrix should consist of Kevlar, Nomex Blend fabric, Nomex thread, Nylon webbing, layered around fiber etc.

3) Cooling suit consists of the following items:

- The suit should be wearable with commercially available equipment.
- Pockets should be able to accommodate the power pack and controls.
- The ice reservoir should be provided on the back of the suit.
- The cooling suit should be designed to offer a safe and cool environment.
- The system should be ideally suited for persons involved in bomb disposal and surveillance operations.
- The cooling system should be able to use ice water to remove body heat.
- The suit should not use hazardous pressurized canister or toxic cooling agents.
- The fabric should be made of machine washable, fire retardant kermel.

- The suit should also offer protection against heat and flash fireballs
- The suit should be suitable for use under bomb suits, chemical suits and many other applications where body heat removal is desirable
- The kit should be self contained in that it should include a long sleeved shirt with cooling on trunk and arms, long legged pants with cooling on legs, a close fitting open faced hood for cooling of head, a cooling unit and pouch, two water bottles, battery pack and carrying bag.

4) Specifications of Cooling suit:

- The heat Removal rate should be 270 watts (full suit) or better
- Endurance : min levels to be supported- 45 min at 35 degree C
- Cooling Unit Control should be a toggle button: On/Off
- The pump should be operable by rechargeable battery of 6V/9V
- The cooling source should consist of ice cubes and water.
- The weight of the cooling suit and cooling unit without ice should be max 2.2 Kg.

5) The Bomb Suit should be made up of the materials shown as under. The Helmet should be made:

- High performance composite material.
- Anti-ballistic visor made from hardened acrylic/polycarbonate laminate.
- Suspension harness-webbing and ballistic nylon.
- Weight with visor not more than 6 Kg.
- V50 (helmet) 600 m/s or better
- V50 (visor) 750 m/s or better.
- Protection for visor while in storage should be provided.

The Blast Plates should be made of

- Polycarbonate, steel, foam, ultra high molecular weight polyethylene
- Weight
- Weight without Up Armor Blast Plates not more than 16 Kg.
- Suit with Up Armor Blast Plates not more than 30 Kg.

Power Pack

A 12V rechargeable or alkaline power pack should be provided with the suit, which should have a special pocket to accommodate it.
~ The power pack should have battery status indicator.
~ Recharging : mains charger should be provided.

- **Search light and mount on helmet should be provided.**

- **The jacket and trouser materials should be as specified below :-**

  - Outer cover – Nomex/Nomex Blend Fabric, Nomex Thread.

- Protective inserts – soft components: - Layered Aramid Fiber, contained in water – repellant Nylon
- Colour – Olive Drab

- **The Cooling Suit Material should be :-**

  - Garment – Kermel.
  - Sizing – Small – 150-175cm; 40-70kg., Medium - 170-185cm; 70-85kg, Large 175-193cm; 85- 110kg.,
  - Compatibility – should be able to be worn next to skin under any clothing.
  - A Second water/ice bottle should be supplied for stand by.

6) Ballistic EOD helmet with fan and canister configuration:-

- The EOD helmet should be made from a sandwich construction system and adjustable by means of a three/four point suspension.
- The helmet should be provided with a facility for a communication set consisting of two headphones with one microphone and extension lead for attachment to any VHF/UHF radio transceiver. it should have auto gain controller to protect the ear drum.
- The helmet should have an air Ventilation system, which directs the flow of, forced fresh air over the top of the helmet liner, across the visor and down over the operator's face ensuring efficient demisting and clear view with adjustable air flow.
- The system should be able to be used in conjunction with a canister (NBC) configuration.

7) Communications: The helmet should have built in speaker and microphone. An external socket should be provided for connection to a wireless or hardwire system.

A. Wireless – Hand held radios (two) VHF/UHF Trans Receiver upto 100 mtr range.

8) Jacket

- The jacket should be a long sleeved, side opening design filled with flexible Kevlar ballistics.
- Provision should be made on the front for the attachment of rigid chest and groin blast plates be means of integral packets with webbing and Velcro securing straps.
- Pouches for working tools, air blower and radio should be attached to the front and back of the outer cover.
- Immediate removal of the jacket should be achieved be use of the quick release straps attached to the side and shoulder.

9) Trousers

- The trousers should have fully adjustable supporting braces and wide Velcro waistband catering for small, medium and large sizes.

- The rear of the legs should have a full length Velcro strip/Brass Zipper which should be used in conjunction with the retaining strap to fix articulated flexible armour in position.
- The over boots should be changeable and should be held in position by Velcro, leather and webbing straps.

10) Misc. The firm should be able to provide the following, as applicable, along with the equipment.

- Cleaning kit.
- SMT (Special Maint Tools)
- Training aggregate – charts, slides, trg brochure, trg work model, blow up
- diagram, video films etc.
- Physical Training in India.
- Proof schedule to include details of testing and acceptance criteria.
- Technical Manual giving full description of the item.
- User's Hand Book.
- Literature on preservation/Maint.
- Specification for packing, handling/transportation/storage.
- Details regarding periodical inspection by the user.

11) Warranty : Three years.

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
HOOK & LINE SET

Hook & Line sets provide essential semi-remote handling capabilities for bomb technicians. The two-line comprehensive kit, provides advance capabilities to allow users to attach, redirect, reach and maneuver suspect EOD/EDD devices.

Specification:

- High strength, low stretch, color-coded Kevlar core lines.
- Lockable, self-opening pulleys.
- High strength, laser cut, stainless steel hooks.
- Hard Shell carrying case.
- Warranyt-Three year.

Items & Qty

1	Basic Reel Assy. with brake & carry case	2
2	Barrel Strap	2
3	Swivel release pulley Assy.	4
4	Vice-grip clamp Assy.	1
5	Rope pull Assy.	1
6	Large Triple hook Assy.	2
7	1" (25.4mm) double hook Assy.	1
8	Double suction cup Assy. with bridge	1
9	Wedge-it Assy.	2
10	Cantilever clamp Assy.	2
11	Spring clamp Assy.	2
12	0.5" (12.7) hook	1
13	1" (25.4mm) hook	2
14	2" (50.8mm) Inch hook	1
15	Pulley release cylinder Assy.	2
16	3.54" (90mm) Piton	3
17	2.75" (70mm) Piton	3
18	Leather man multi-function tool	1
19	Rope sling with eyes	3
20	Carabiner, large screw gate	2

21	Carabiner, medium screw gate	6
22	Wire sling 0.12" (3mm) x 79" (2m)	4
23	Telescopic pole Assy. with hook holder 10' (305cm)	1
24	Hook setter Assy.	1
25	Self-locking hook Assy.	1
26	Flat hook base Assy.	3
27	Locking forceps	1
28	Standard snatch block	2
29	Fireman snap	2
30	Adhesive anchor Assy.	10
31	Ultimate pelican carry case	1
32	Door stop	4
33	Door way anchor Assy.	2
34	10" (25.4cm) heavy duty clamp anchor	1
35	Line branch	1
36	Snatch block, one way lock	1
37	Auxiliary line, 33' (10m)	1
38	30" (76cm) flat bungee	1
39	4" (10cm) screw eye, SS	5
40	D-shackle, SS	1
41	EOD sledge	1
42	Spiral ground anchor	1

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
RSP TOOL KIT (RENDERING SAFE PROCEDURES)

Render safe procedure Tool Kit consist of :-

- Nylon fish line (100m) with fish hooks
- Watch makers screw driver set
- Screw Driver of all sizes
- Wire stripper
- Tweezers (6" long)
- Pincer
- Dental mirror (0 75" Dia)
- Scissor (6.8 and 9" long)
- Nylon rope (5mm dia, 100m long)
- Ent tool kit
- Hack saw for metal cutting with blades-one big one mini.
- Foll cutter small
- Non metallic hammer
- Pilers capable of cutting barbed wire
- C Clamp (6")
- Portable vice (2")
- Strap (1m)
- Adjustable wrench (200, 250, 300 &350mm)
- Tin Cutter
- Wire cutter
- Grip spanner
- Nos.e pliers
- Measuring tape (5m long)
- 24 Can opener
- Spanner (Various size)
- Cutting blade

- Li-Ion LED Torch with charger. Aluminium body
- Soldering iron with solder metal
- Insulation tape (20m)
- Magnifying glass (4" dia)
- Stethoscope
- Surgical blades with handle
- Chisel (16x150)
- Metallic punch
- Safety matches
- Permanent marking pens
- Rigid carrying case with foam cutouts
- Plastic box (2x4x6")
- Plastic knives (4&6")
- Wire cutter
- Hand held electric drilling machine with drill bit set
- Cardless type 18V with spare Li-ion 2 Ah batteries, charger and drill bits of the same company. Energy star compliance. CE certification required.
- Quick seal sealant
- Cello tape/masking tape
- Warranty: Three years.

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)
SPECIFICATION OF
CAR REMOTE OPENING TOOLS SET(CROT SET)

S.No	Description	Qty.
1	Vice grip pliers with ring (25 mm max jaw gap 115 mm) –	01
2	Hook single (50 mm gap)-	01
3	's' hook (25 mm gap) –	01
4	Hook single with ring (25mm) –	01
5	Hook double with ring (50mm)	01
6	Ring large (50mm)	01
7	Ring small (25mm)	01
8	Bonnet cover opener	01
9	Trunk lid opener screw clamp	01
10	Car Door opener	all types
11	Door opener clamp all types of cars / remote window breaker	01
12	Door handle lifter	01
13	Door button pusher	01
14	Multipurpose clamp	01
15	Ignition key holder screw type	01
16	Ignition key holder with magnet	01
17	Key / handle clamp	01
18	Spring clip hook double with ring (50mm)	01
19	Spring clip with ring (25mm)	01
20	Triangular window opener	01
21	Rope nylon 2 mm dia , 10m (200 kg load)	01
22	Rope nylon 2 mm dia, 15m (200kg load)	01
23	Rope nylon 2mm dia , 30m with hook (600 kg load)	01
24	Stand held lifting assembly	01
25	Pulley snatch strength	01
26	Hub cup opener with ring -01 screw driver set	01
27	Double end spanner set (5/7 to 22/27)	01
28	Rivet opener screw type x 01 and rivet opener punch type	01
29	Hammer ball pana / claw	01
30	Cutter knife	01
31	Special lead for self starter	01
32	Pliers side cutting	01
33	Karabiner type hook 23mm / 2700 kg	01
34	Special clamp for bonnet cover with vice grip pliers	01
35	Suction pad anchors	01
36	Self adhesive anchors	05
37	Heavy duty cantilever jaw grip	02
38	Sliding clamp anchor	01

39	Telescopic tripod with top eye (capacity-750 kg) overall height at least 2000mm steel anchor pegs for stability, min pitch circle dia of 2000mm at max extension	01
40	Pelican carrying case with rubberized foam insects to accommodate the tools Misc:- a) Cleaning kit, if any b) Technical manual giving full description of the item c) Users hand book d) Operator training / demonstration in India	

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF PRODDER

The prodder is used for removing soft soil or drilling through soft soil for the location of buried /hidden explosive devices.

1. The non metallic of approx. 8-10 mm diameter.
2. Length about 3 feet with pointed tip.
3. Insulated hard grip.
4. Proder to withstand prodding force of min. 30 kgs.

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
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SPECIFICATION OF

EXTENSION SEARCH MIRROR

It is specially designed three rod telescopic pipe system with quick release clip lever type clutch locking system. One mirror having adjustable torch for night time vision. It has a handle and arm rest for fatigueless operation.

1. Light weight
2. Maintenance free
3. Rechargeable Li-ion LED torch on adjustable mounting with battery charger.
4. Torch with aluminum body.
5. Inspection mirror should have adjustable, convex/plain mirror.
6. One extra set of mirror
7. Warranty - 3 years.

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SPECIFICATION OF
SEARCH LIGHT LED

- Power - 5 W.LED (minimum)
- Bulb Life - 50,000 Hours
- Brightness - 1000 Luminas (1 m)
- Battery - 2500 MAH Li-on (minimum)
- Accessories - Charger, Adopter, Additional Battery, Belt Nylon holster
- Run Time - 3.50 Hours minimum
- Body - Aluminum alloy Metal with Knurling for better grip (Water proof)
- Lens/ Focus - Front lens for minimum dispersal of light over long distance Variable focus desirable.
- Warranty - 1 Year

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(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
UNDER VEHICLE SEARCH MIRROR

1	Under Vehicle Search Mirror should be poly carbonate plane mirror size 35 x 25 cm with 5 mm thick fitted in branded Briefcase
2	LED array light fitted for night operation
3	Inbuilt battery backup with AC 230V charger
4	Caster wheels fitted for easy movement on floor
5	Telescopic handle for user convenience fitted on upper cover of briefcase so that after closing telescopic handle briefcase can be closed .
6	Warranty 3 years.

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(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

SPECIFICATION OF
B.D.D.S. VEHICLE

SPECIFICATIONS FOR COVERT BDDS VEHICLE

CHASSIS and CAB:

- New (current model year)
- Cab to have:
    - Wheelbase Approx: 4,350 mm
    - Dimensions (L x W x H) approx.: 6,500 mm x 2,500 mm x 2,900 mm. High Roof
    - Maximum permissible laden weight about 2 cabins: 3,500 kg

    - 3 doors: driver/passenger with power latching, rear wing doors
    - Awning to cover the slide door.
    - Awning shall feature an aluminum wrap-around cover to protect awing while in the stowed position.
    - Plastic rollers shall be installed, as needed, on any sharp edges to prevent awning damage.
    - Exterior Color: White. Appearance of a delivery van
- The cab should be equipped with all standard equipment to include at minimum:
    - Power Steering
    - AM/FM radio w/CD flash drive player
    - Driver's and Officer's front seats as well as two radio cabin seats: Bostrom Talladega 910 high back or equivalent swivel seats with arm rests, lumbar support, power height/recline adjustment and head rest/cushion.
    - Analog Instrument Display to include engine-hour meter
    - Cruise Control
    - Glove compartment with lid
    - Intermittent Windshield Wipers

- Power windows
- Partition for the two compartments with communication wondow.
- Air Conditioning
- Electronically controlled side view mirrors.
- Tinted Glass/Side Windows and Windshield

- Additional Chassis Specifications will include:
    - Aluminum Alloy Wheels: 16" x 6.5J + one as stephanie
    - Six Radial tyres + one as stephanie
    - Disc brakes
    - Power: upto 100 KW@ 3500 rpm/ 161 hp at 3,800 rpm
    - Power steering –rack and pinion.
    - Mud flaps: Front and rear wheels
    - Dual 12V Maintenance-Free Heavy Duty Batteries
    - External Battery Jumper
    - Allison automatic transmission or equivalent with PTO provisions, push button electric-shift control and transmission oil cooler
- Back-up camera system with color monitor located in driver's area

BODY

- All aluminum construction
- Exterior color: White. Appearance that of a delivery van or news channel
- The cabin to contain equipment boxes mounted at a comfortable work level. Each storage area shall be designed to accommodate as per the dimensions to be provided later.. All shelves to be aluminum/moulded strong plastic/polymer.
- The area located at the rear of the cabin to be used for equipment storage
- Air Conditioners / Heaters designed to efficiently heat and cool the BDDS Vehicle.
- Power crank-up radio antenna two (2) in number- one for the AM/FM and another for police wireless radios.
- All walls, ceiling and floor of the Body should be completely insulated to enhance performance of the heating and cooling system. All wall coverings should be constructed using a Kemlite (or equivalent) product
- Cabinets (base and overhead) shall be constructed using powder-coated aluminum with anodized aluminum 3 mm frames.
- LonSeal or similar grade slip-resistant smooth flooring should be used throughout the Body with seams placed under cabinets where possible. Cove base molding to be applied at the wall/floor interface.
- All 12 volt and 120/240v wiring shall be full-length runs enclosed in liquid tight conduit with all liquid tight connections. All wire shall be color and number coded and shall meet all national electrical codes and standards. The BDDS Vehicle's electrical system should be configured to operate using either onboard electrical power for charging purpose.
- A Whelen 600 Series (or equivalent) LED tail-light package to be installed on the BDDS Vehicle. These will include polished chrome vertical housings for 600 Series light heads, amber (arrow) turn-signal flashers, brake/tail-lights and back-up lights.
- Complete manual set including As-Built specifications with interior and exterior drawings used for production of the vehicle with legends and schematics detailing wire gauge, color, number and function. Chassis and body owner's manuals shall also be included.

- Complete manual set including:
    - As-Built specifications and plans with interior and exterior drawings used for production of the vehicle with legends and schematics detailing wire gauge, color, number and function.
    - Chassis and body owner's manuals shall also be included.
    - One (1) set of electrical wiring schematics.
    - One (1) antenna wiring schematic.
    - One (1) audio wiring schematic.
    - One (1) telephone wiring schematic.
    - Two (2) factory shop manuals, maintenance and repair, (paper) chassis and body.
    - Two (2) comprehensive parts manuals (paper) chassis and body.
    - Two (2) schematic drawings of complete electrical wiring and hydraulic system.

- Body Structure
    - Carbon steel angles and channels
    - Fully welded and bolted directly to chassis frame rails
    - Compartment weight fully supported by chassis rather than the body
    - Aluminum or stainless steel body interiors
    - Body air conditioning and heating
    - Body awning
    - Special storage racks and compartments
    - Tool boards
    - Tool boxes
    - Utility trays

- All 12 volt and 120/240v wiring shall be full-length runs enclosed in liquid tight conduit with all liquid tight connections. All wire shall be color and number coded and shall meet all national electrical codes and standards.
- Custom fabricated aluminum cabinets with dry erase writing surface
- Solid surface countertop
- Custom Cabinetry with Whiteboard Inserts in Overheads
- LED ICC Lights
- White Gel-Coat Fiberglass Exterior
- All aluminum or stainless steel exterior
- Slip-resistant aluminum tread plate on floor and walkway walls
- Laminated countertops, upper walls, and ceilings
- Roof interior trim as molded headlining in cab and passenger/load compartment for high roof

- Acoustically and thermally insulated engine box cover.
- Extruded aluminum floor with interlocking planks.
- All exterior walls and ceiling shall be insulated with fiberglass board insulation
- Ceiling finish shall be loop pile fabric over 1/2" bcx plywood or equivalent.
- Floor finish shall be Lonseal Loncoin II Fleckstone PVC flooring or equivalent over 3/4" T&G plywood or equivalent. Install 2-1/2" vinyl cove base throughout. The floor shall be foam insulated.

- All drawers shall be constructed with heavy duty, ball bearing and dual-action drawer slides that automatically latch when closed.
- All counter tops and table tops are to be constructed of solid surface plastic or rubberwood. All exposed edges are to be 1-1/2" half round.
- All walls, ceiling and floor of the Body should be completely insulated to enhance performance of the heating and cooling system. All wall coverings should be constructed using a Kemlite (or equivalent) product.
- Cabinets (base and overhead) shall be constructed using powder-coated aluminum with anodized aluminum frames.
- LonSeal or similar grade slip-resistant smooth flooring should be used throughout the Body with seams placed under cabinets where possible. Cove base molding to be applied at the wall/floor interface.
- Windows should be provided with single pull down sun blind – adjustable to different levels of blind.

ACCESSORIES:

- Working lamp: roof/rear of cab wall
- Lower LED lights on the front
- Marker and position lights
- Led tail lamp with integrated functions
- Alcoa aluminium wheels
- Wheel nut caps
- Wheel covers: stainless steel
- Chassis fitted storage and tool box: sturdy, tight-sealing 250-litre storage and tool box for mounting onto the chassis. Made of hard-wearing, uv-resistant plastic for durability. Tight with seals – keeps water and grime out. Two-grip handle for safe opening.
- Electrical accessories Like Extension board switches etc.
- Adopter & All Electronic Accessories to be CE/UL certified.

Note :

1- Minor changes in the fabrication shall be permitted

2- A special cabin for sitting arrangement of the sniffer dog. It should be isolated from sitting arrangement of B.D.D.S. persons .The design of this cabin will finalized at fabrication stage.

3- The vehicle shall be inspected at deferent fabrication stages

4- The construction of the body shall confirm to all India Motor Vehicle Act.

5- 6 feet telescopic alluminium lader should be provided

6- Nos. of boxes to be accommodated in design are as below -

7- Toeing hook required at front & back

8- warranty - Three year

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
CONTRA BAND DETECTOR

Objective-		To detect explosives, weapons and much more with fast and effective way of detecting contraband in objects such as containers, tyres, car doors, fuel tanks and other objects which can contain illegal substances such as vehicles, trucks, boats and aero planes
GENERAL SPECIFICATIONS		
1	Equipment	Should be user-friendly, easy to understand. Should be weather proof/ shock proof that can detect explosives, weapons etc.
2	Safety	Should be safe for security personnel
Technical Specification		
1	Technology	Microprocessor based detector to digitalize and display variation in intensity of reflected high-energy radiation. No consumables
2	Detection range	Should accurately indicate changes in density up to a depth of 300 mm. aprox. Contact less detection.
3	Dimensions	Ideal for hand held operation.
4	Weight	Approx. 1.5kgs.
5	Display	• LCD. display • Capable of updating every 0.25s. • Low battery & minus sign indications. • Provision for push button operated electro-luminescent back light panel.
6	Alarm	Audio , visual & vibration
7	Power Battery	Should work on easily available battery
8	Operation modes	Should have (i) Self Test (ii) Calibration (iii) Search for the changes in substance density (iv) Measurement mode (v) Detection mode (vi) Set mode & (vii)communication with PC
9	Shield	Lead block

10	Detector	Cesium iodide scintillation crystal type with appropriate microprocessor based circuitry.
11	Accessories	• Technical manuals and consumables. • Software for PC communication mode • Rate meter (Pocket type)
12	Additional Functions	1. The rate meter should be able to be used as a separate "Pocket Type" radiation detection instrument which should be able to detect the smallest amount of radioactive materials 2) IR communication port for PC connection for setting advanced instrument parameters, enable or disable operation modes, & download event data stored in the instrument memory to the dates base
13	Operating Conditions	-30°C - +50°C. Relative humidity up to 95%
14	Carrying case	Suitable for safe transportation.
15	Certification	CE/UL & IP-67 certificate Required.
16	Operation & Maintenance Manual	1- Operating Manual and Service Manual should be provided with each unit. 2- Operator's training should be carried out in Bhopal/any district in Madhya Pradesh at our premises
17	**Warranty-**	**3 Year warranty required for the supplied equipments**

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
OPTICAL FIBER SCOPE

1- Battery Version:	-	Incase less than 9 kg Without Case: less than 2.5 kg
2- Power (Lithium Ion Battery):	-	75 WH (4-hour)
3- LCD Monitor:	-	Integrated < 10 cm VGA color LCD
4- Joystick Control:	-	360º Tip articulation menu access and navigation
5- Audio:	-	Integrated 2.5mm headset/microphone jack
6- Internal Memory:	-	IGB Flash memory
7- Data I/O Parts:	-	One USB® 2.0 part
8- Brightness Control:	-	Auto and Variable
9- Illumination Type:	-	White LED
10-White Balance:	-	Factory default or user defined
11-Waterproof:	-	Insertion tube and tip up to 10m of water
12-Diameter Probes:	-	< 4 mm
13-Image Sensor:	-	1/10 inch color CCD camera
14-Software	-	Real time multi tasking
15-User Interface:	-	Simple drop-down menu-driven operation Menu navigation using articulation joystick
16-File Manager	-	Embedded file manager software sporting file & folder creation, naming, deleting, store to internal flash IC/or USB Thumb Drive. Copy between USB & C/
17-Audio Data	-	PC compatible
18-Image control	-	Invert zoom (3x digital) image capture & recall
19-Digital Zoom	-	Continues (3x)
20-Image format	-	Bit map (BMP) JPEG (JPG)

21-Video format	-	MPEG 4
22-Tip Articulation	-	Up-down 100° min. Left right 100° min.
23-Probe length	-	4 meters
24-Warranty	-	3 Years
25-Certification	-	CE/ UL Certificate Required

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
BARRICADING TAPE

Barricade warning tapes will consist of high visibility safety yellow or red polyethylene with bold black letters. Standard letter height is two inches (2"). Tapes help prevent accidents by increasing visibility of hazards and can be tied, stapled or nailed in place .

Length of Barricading tape – 5000 mtrs.

Width length of barricading tape - 4"

The letters printed on tape will be decided at the time of PO

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
BAGGAGE SCANNER

S.No	SPECIFICATION
1	Tunnel Dimension- 600 mm (w) x 400 mm (H) approx.
2	Conveyor Height – 690 mm approx.
3	Conveyor belt speed should be beween 0.2/024 (m/s) conveyor movement bi-directional
4	All machines should operate on 230 VAC, 50 Hz power supply and should be able to withstand voltage fluctuation in the range of 170V to 260 V. Single phase, 3 to 5 Amp.
5	Conveyor capacity – 160 Kg. (352 Ibs) or more
6	Sensors- L-shaped detector (folded array type), in case of defective diode arrays, scanning should be disabled and error message should be displayed on the screen.
7	X-Ray Voltage – 140 to 160 KV
8	Duty cycle – 100% no warm-up procedure required.
9	Cooling – Sealed oil bath
10	The X-Ray beam divergence should be such that the complete image at maximum size of bag is displayed without corner cuts, Beam divergence should be diagonal
11	The radiation level should not exceed accepted health standard (0.1m R/Hr. at a distance of 5 cm from external housing). Relevant certificate from AERB
12	The operating temperature should be – 0 degree C to 50 degree C
13	Storage temperature – 20 degree C to 60 degree C
14	Humidity – 10% - 90% non-condensing.
15	Resolution : The machine should be able to display single tinned copper wire of 38 AWG equivalent to 42 SWG. All penetration and resolution condition should be met without pressing any functional key and should be line.
16	Penetration should be 29mm thickness of steel or more
17	Continuous Electronic Zoom facility should be available to magnify the chosen area of an image. Minimum zoom should be Sixteen times (16x) required. Image zoom features shall be keybord controllable
18	Video display – 21" LED Monitor High resolution, low radiation, flicker free, resolution at least 1280x 1024, 24 bit colour real time processing.
19	The machine should have features of Advanced Multi Energy X-ray imaging facility where materials of different atomic number will be displayed in different colours to distinguish between organic and inorganic materials. With this method to distinguish high-density organic materials including

20	explosives. Machine should have bariable colour or materials stripping to facilitate the operator to monitor images of organic matherials for closer scrutiny. All suspicious items (Explosives, High density, & narcotics material) should be displayed in one mode and that should be on line. The machine should have the feature of selective detection of organic substances with relative atomic number numbers Z off 7, 8, or 9 By pressing a single kay it must be possible to toggle between the atomic numbers 7, 8 or 9. The image becomes a black and white image and only the image parts representing materials with the selected atomic number will be displayed in red.
21	The machine should have feature of automatically detecting sections of high absorption. The materials which are difficult to penetrate should be improved without deteriorating the image information of other image sections.
22	The machine should have the feature of warming the operator by stopping of the belt in case of presence of high absorbing material in a baggage.
23	System should have threat image Projection (TIP) software module Radiation safety The machine must comply with requirements of health and safety regulations with regard to mechanical electrical and radiation hazards Before installation of the machine, the supplier/manufacture should furnish relevant certificate from Atomic Energy Regulatory Board of India regarding radiation safety. The company manufacturing the equipment should have ISO certification for manufacturing and serving of X-ray Screening machines.
24	Film Safety Guaranteed safety for high-speed films up to ISO 1600. The machines should be film safe, in other words photographic films must not to damaged due to X-ray examination
25	Machine should be rodent protected dust proof cover is to be provided for covering when system is not in use.
26	Facility for variable contrast must be incorporated to allow enhancement lighter and darker portion of the image.
27	The machine should be so designed that software enhancement can be easily implemented to take care of new technique in image processing and pattern recognition.
28	Through put should be 400 bags per hour or more
29	Full diagnostic built in test facility. All models should have software-controlled diagnos, is is report facility and system should give printout if printer is connected.
30	All software features of machine should be online and password protected.
31	Machine should be capable for recalling 20 previous images.
32	It should have the capability of archiving 30,000 images with automatic overwrite
33	Control desk with security housing and locking provision should be available
34	Facility of image enhancement should be available
35	All models should have online recording facility and images can be recorded in DVD/CD R/W and USB drive

36	Lead impregnated safety screens should be available at either ends of the tunnel Idle rollers to be provided at either ends of the tunnel to facilitate placing of baggage it input and output
37	Company should provide free upgrade of software for 3 years. All software features should be controlled from key board of machine only. Keyboard function should be user friendly. To enable/disable the software features system should not be rebooted.
38	If the machine falls to penetrate a particular item the an alarm video and audio both should be generated to notify the operator
39	Copy of all software including X-ray software with recovery CD must be provided.
40	Operational Training-Operating staff has not to be provided free training
41	Operating & service manual shall be provided with each machine
42	Other features a) Super Enhancement b) Negative/inverse video c) Fast initial warm-up d) Pseudo colour e) Date & Time display f) High Density Alert g) HI-SPOT
43	Computer Configuration a) CPU : Intel ® Coreth i7-4770 Processor, 3, 4 Ghz, 8 MB Cache or better b) Chipset : Intel Q67 Express or higher on OEM Motherboard c) Bus Architecture : 4 PCI (PCI/PCI Express) d) Memory : 8 GB 1066 MHz DDR3 RAM with 32 GB Expandability e) Hard Disk Drive : 2 TB 7200 rpm Serial SATA HDD or higher f) MOnitor : MINIMUM 21 inch LED Colour Monitor g) Keyboard 104 keys h) Mouse : Optical with USB interface i) Graphics card : 4GB MINIMUM j) j. Ports : 6 USB Ports (with at least 2 in front) audio ports for microphone and headphone in front k) Cabinet : Small form factor (Max. 16 Litres) l) DVD Writer : 8X or better m) Networking facility : 10/100/1000 on board integrated Network Port with remote booting facility remote system installation remote wake up, out of band management using any standard management software n) Operating System : Windows 7 Professional or higher/ RHEL/SUSE Linux preloaded, as specified, with Media and Documentation and Certificate of Authenticity o) OS Certifications : Windows 7 OS or higher and linux certification p) Power Management : Screen Blanking, Hard Disk and System Idle Mode in Power On, Set up Password, Power supply SMPS Surge q) Preloaded Software : Norton or McAfee or eTrust or E-Scan or Fore front or Trend Micro or PC Tool or Quick heal Antivirus (Latest Version) with 3 years License r) UPS – 3 KVA online with back-up time of at least ½ hour

	Note : a) The X-Ray Machine shall be supplied, installed, Maintained by the original equipment manufacturer. b) Manufacture's Warrantee : Minimum 3 years c) Bidders should technically demonstrate the offered model as per the specification of the tender

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
VEHICLE MOUNTED BAGGAGE SCANNER

S.No	
1	Tunnel Dimension- 600 mm (w) x 400 mm (H) approx.
2	Conveyor Height – 690 mm approx.
3	Conveyor belt speed should be beween 0.2/024 (m/s) conveyor movement bi-directional
4	All machines should operate on 230 VAC, 50 Hz power supply and should be able to withstand voltage fluctuation in the range of 170V to 260 V. Single phase, 3 to 5 Amp.
5	Conveyor capacity – 160 Kg. (352 Ibs) or more
6	Sensors- L-shaped detector (folded array type), in case of defective diode arrays, scanning should be disabled and error message should be displayed on the screen.
7	X-Ray Voltage – 140 to 160 KV
8	Duty cycle – 100% no warm-up procedure required.
9	Cooling – Sealed oil bath
10	The X-Ray beam divergence should be such that the complete image at maximum size of bag is displayed without corner cuts, Beam divergence should be diagonal
11	The radiation level should not exceed accepted health standard (0.1m R/Hr. at a distance of 5 cm from external housing). Relevant certificate from AERB
12	The operating temperature should be – 0 degree C to 50 degree C
13	Storage temperature – 20 degree C to 60 degree C
14	Humidity – 10% - 90% non-condensing.
15	Resolution : The machine should be able to display single tinned copper wire of 38 AWG equivalent to 42 SWG. All penetration and resolution condition should be met without pressing any functional key and should be line.
16	Penetration should be 29mm thickness of steel or more
17	Continuous Electronic Zoom facility should be available to magnify the chosen area of an image. Minimum zoom should be Sixteen times (16x) required. Image zoom features shall be keybord controllable
18	Video display – 21" LED Monitor High resolution, low radiation, flicker free, resolution at least 1280x 1024, 24 bit colour real time processing.
19	The machine should have features of Advanced Multi Energy X-ray imaging facility where materials of different atomic number will be displayed in different colours to distinguish between organic and inorganic materials. With this method to distinguish high-density organic materials including explosives. Machine should have bariable colour or materials stripping to facilitate the operator to monitor images of organic matherials for closer scrutiny. All suspicious items (Explosives, High density, & narcotics material) should be displayed in one mode and that should be on line.
20	The machine should have the feature of selective detection of organic substances

	with relative atomic number numbers Z off 7, 8, or 9 By pressing a single kay it must be possible to toggle between the atomic numbers 7, 8 or 9. The image becomes a black and white image and only the image parts representing materials with the selected atomic number will be displayed in red.
21	The machine should have feature of automatically detecting sections of high absorption. The materials which are difficult to penetrate should be improved without deteriorating the image information of other image sections.
22	The machine should have the feature of warming the operator by stopping of the belt in case of presence of high absorbing material in a baggage. System should have threat image Projection (TIP) software module
23	Radiation safety The machine must comply with requirements of health and safety regulations with regard to mechanical electrical and radiation hazards Before installation of the machine, the supplier/manufacture should furnish relevant certificate from Atomic Energy Regulatory Board of India regarding radiation safety. The company manufacturing the equipment should have ISO certification for manufacturing and serving of X-ray Screening machines.
24	Film Safety Guaranteed safety for high-speed films up to ISO 1600. The machines should be film safe, in other words photographic films must not to damaged due to X-ray examination
25	Machine should be rodent protected dust proof cover is to be provided for covering when system is not in use.
26	Facility for variable contrast must be incorporated to allow enhancement lighter and darker portion of the image.
27	The machine should be so designed that software enhancement can be easily implemented to take care of new technique in image processing and pattern recognition.
28	Through put should be 400 bags per hour or more
29	Full diagnostic built in test facility. All models should have software-controlled diagnos, is is report facility and system should give printout if printer is connected.
30	All software features of machine should be online and password protected.
31	Machine should be capable for recalling 20 previous images.
32	It should have the capability of archiving 30,000 images with automatic overwrite
33	Control desk with security housing and locking provision should be available
34	Facility of image enhancement should be available
35	All models should have online recording facility and images can be recorded in DVD/CD R/W and USB drive
36	Lead impregnated safety screens should be available at either ends of the tunnel Idle rollers to be provided at either ends of the tunnel to facilitate placing of baggage it input and output
37	Company should provide free upgrade of software for 3 years. All software features should be controlled from key board of machine only. Keyboard function should be user friendly. To enable/disable the software features system should not be rebooted.
38	If the machine falls to penetrate a particular item the an alarm video and audio both should be generated to notify the operator
39	Copy of all software including X-ray software with recovery CD must be provided.

40 41	Operational Training-Operating staff has not to be provided free training Operating & service manual shall be provided with each machine
42	Other features a) Super Enhancement b) Negative/inverse video c) Fast initial warm-up d) Pseudo colour e) Date & Time display f) High Density Alert g) HI-SPOT
43	Computer Configuration a) CPU : Intel ® Coreth i7-4770 Processor, 3, 4 Ghz, 8 MB Cache or better b) Chipset : Intel Q67 Express or higher on OEM Motherboard c) Bus Architecture : 4 PCI (PCI/PCI Express) d) Memory : 8 GB 1066 MHz DDR3 RAM with 32 GB Expandability e) Hard Disk Drive : 2 TB 7200 rpm Serial SATA HDD or higher f) MOnitor : MINIMUM 21 inch LED Colour Monitor g) Keyboard 104 keys h) Mouse : Optical with USB interface i) Graphics card : 4GB MINIMUM j) j. Ports : 6 USB Ports (with at least 2 in front) audio ports for microphone and headphone in front k) Cabinet : Small form factor (Max. 16 Litres) l) DVD Writer : 8X or better m) Networking facility : 10/100/1000 on board integrated Network Port with remote booting facility remote system installation remote wake up, out of band management using any standard management software n) Operating System : Windows 7 Professional or higher/ RHEL/SUSE Linux preloaded, as specified, with Media and Documentation and Certificate of Authenticity o) OS Certifications : Windows 7 OS or higher and linux certification p) Power Management : Screen Blanking, Hard Disk and System Idle Mode in Power On, Set up Password, Power supply SMPS Surge q) Preloaded Software : Norton or McAfee or eTrust or E-Scan or Fore front or Trend Micro or PC Tool or Quick heal Antivirus (Latest Version) with 3 years License r) UPS – 3 KVA online with back-up time of at least ½ hour
	Note : a) The X-Ray Machine shall be supplied, installed, Maintained by the original equipment manufacturer. b) Manufacture's Warrantee : Minimum 3 years c) Bidders should technically demonstrate the offered model as per the specification of the tender

A/C vehicle features and specifications		
Engine	Bharat Stage	BS III

	engine Capacity	1948 cc TCIC Engine Approx
	Engine Power	90 HP @4300 RPM Approx
	Engine Torque	190Nm @ 2000-3000 RPM Approx
	Power-to-Weight Ratio	32 Approx
Driveline	Clutch – 215 dia Friction	
	Gear Box – 5 fwd+1 referse, Manual Front Axle – independent with CV haft	
Steering & Brakes	Rear Axie – Bogey Power Assisted Rack & Pinion Steering Disc Brakes with Twin pot calliper	
	Vacuum Assisted Hydraulic Service Brakes	
Suspension	Front – Mcpherson Struts with coll Spring	
Dimensions	Rear – Double Parabolic Leaf Spring Hydraulic Telescopic Shock Absorber in Rear Wheel Base Length	 3200mm Approx 4420mm Approx
	Width	1905mm Approx
	Height(Unladen)	2050mm Approx
	Internal Length Internal Height	2755mm Approx 1517mm Approx
	Internal Widht Ground Clearance (Laden)	1650mm Approx 165mm Approx
	Front Track Rear Track	1560mm Approx 1526mm Approx
	Turning Radius Approach Angle Departure Angle	6.40m Approx 19,4 in Approx 15in Approx
	Front Overhang Floor Height	940mm Approx 480mm Approx
Weights	Kerb Weight GVW	1740 Kgs Approx 2850 Kgs Approx
Miscellaneous	Tyre 185 R 14 LT BPR Radial Tyres Fuel Tank	690mm Approx 60 L Approx
Climate Control Electricals	Fresh Air Ventilation Dual Air-conditioning (Front+Roof) Battery Alternator	 12V 80 AH 150A
Lamps	Front Windshield Wiper – 2 speed with Washer kit Headlamps – Motorised, Clear Lens halogen	With Delay Timer

	Tail lamp – Clear Lens Fog Lamps – Front and Rear	
	Tail/Brake LED lights	

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
HHMD (HAND HELD METAL DETECTOR)

1- Technology	-	Pulse indication technology transmitter/receiver with automatic instant reset.
2- Operating frequency	-	Approx. 20 KHz to 100 KHz
3- Audio frequency	-	Approx- 2KHz
4- Weight	-	Less than - 300 gm.
5- Power sources	-	Standard 9V rechargeable/disposable battery provided with high quality charger
6- Detection range	-	(i) Should detect a small metal object like Gem-clip from a distance of 1 inch (ii) Instant response to all metal.
7- Indicators	-	(i) Audio, & visual. (ii) Low battery indicator & charging & full charge indicator.
8- Power control	-	Push button/press on/off switch
9- Adjustment provision	-	(i) Audio on/off switch
10-Safety	-	Safe for heart pace makers & non interference with magnetic recording materials.
11- Operating temperature	-	0 degree to 50 degree Celsius
12- Certification	-	CE. certificate Required
13- Warranty	-	Three years warranty.

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
PORTABLE DOOR FRAME METAL DETECTOR

1- Technology	-	State of art technology including pulse induction technology (Preferably)
2- Sensitivity	-	0 to 9 level by a single switch.
3- Metal detection	-	(i) Should detect all metals including ferrous non ferrous ferrite alloys carried on person at all speed. (ii) Capable of detecting single detonator on a person.
4- Alarm Signal	-	Sharp audio single with multiple visual indicators.
5- False alarm rate	-	Less than 3%
6- People capacity	-	Approx 15 person per minute. (Through put rate)
7- Dimensions & Height	-	Height - 200Cm, width - 80Cm.
8- Interference protection	-	(i) Should not interfere with adjacent installed DFMD. (ii) Total immunity to environmental/Radio signal. (iii) Optimum compensation for external stationary metal.
9- Power Supply	-	(i) 220 VAC/ 50Hz Mains.
	-	(ii) 12 V DC rechargeable for minimum 10 Hrs operation with in built charger. The charger should be heavy duty & good quality SMPS/Transformer based.
10- Calibration	-	(i) Automatic & manual (ii)Re-set time adjustable.
11- Temperature	-	0 degree to 50 degree
12- Humidity	-	Up to 95% , No condensation

The door frame made up of flexible cable housed in telescopic extendable P.V.C. pipe frame with clutch in for quick release & locking system. The pipes to form a door frame by releasing the clutch. The elbow, socket & clutch made out of unbreakable brief case. Two no. wooden (Teak) legs for stability of frame & wooden ramp (Teak) for protection of coil. Plug in cord system & I.R. sensor to avoid outside metal movement alarms.

13- Control unit	-	Control unit built in good quality briefcase
14- Counter	-	Five digit in/out and net in.
15- Safety	-	(i) Should confirm to international standard of safety/radiations. (ii) Safe for cardiac pacemakers and magnetic recording materials. (iii) Should be data safe.

16- Warranty, after sale service & availability of spare parts. - (i) 2 Years minimum warranty.
(ii) availability of suitable repair service centers & spare in state capital or in major city of state.
(iii) Should undertake to provide maintenance/spare support for a period of minimum 5 years.

17- Complete DFMD supplied in single heavy duty large briefcase.

18- Instruction & operating Manual should be provided with each DFMD containing manual (In Hindi language)

(i) How to install the DFMD with drawing
(ii) Safety measure & precaution.
(iii) Storing & Charging procedure of DFMD.

19- Battery status indicator LED indicator during operation the battery status should be indicated by one tri color LED state that normal charge. Advance low battery indication & blinking LED with audio beep as battery cut of stage. The battery voltage should also display in LCD.

SPECIAL BRANCH, POLICE HEAD QUARTER, BHOPAL

B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
MULTI ZONE DOOR FRAME METAL DETECTOR

Installation of the **Multi Zone Door frame Metal Detector (Weather Proof**) with following specification :

1	It should be capable to detect both ferrous and non ferrous metals.	
2	Passage dimensions	Height 200 cm approx Breadth 75 cm approx Width 60 cm approx
3	Weight	90 Kg Maximum
4	Power supply	220+/-10V AC, 50Hz
5	Alarm	Acoustic and optical alarm with alphanumeric display height on person bar display (metal locator), low battery indication.
6	Visual Alarm	Visual Alarm of DFMD shall facilitate the security inspection personnel in locating the zone in which the threat object is concealed simultaneously.
7	Sensitivity	Wide range of sensitivity setting and fine tuning, zone wise sensitivity setting required.
8	Zones	Not less than Eight zones, covering full height of the instrument.
9	Calibration	Manual and automatic by build – in key pad by remote control via a serial/wireless link. All functions should be programmable & controlled by a microprocessor.
10	Counter	Intelligent traffic counters for transit.
11	Detection	Uniform from top to bottom.
12	Throughput rate	25 People per minute.
13	Multiple metals	Should be able to detect multiple metals of various sizes in all the zones simultaneously.
14	Protection	Conform to relevant electric safety standard (Supported by test certification from NABL {INDIA} or other accredited labs from the country of origin of the equipment. It should have IP 55 Protection.
15	Operation of DFMD shall not be affected by infrared, ultraviolet, electromagnetic or R.F radiation.	
16	Certification – CE . Certification required	

17	Heath & safety : DFMD shall be cardiac, pacemaker, magnetic tape & Film Safe. Bidder shall submit certification to this effect with the supporting documents	
18	The offer equipment should be compact, fully solid state, highly reliable and shall use latest state of the art technology.	
19	The equipment should be designed for continuous operation, 24 hour a day and 365 days a year	
20	All types of spares and spare modules of the offered equipment shall be readily available with the Bidder & its OEM partner during life time of the equipment (10 yrs. approximate) for maintenance, repairs & up keep of the equipment .	
21	Bidder, Firm must provide an OEM authorization conforming the compliance to technical Specification, along with the OEM authorization Certificate.	
22	Main power Supplies used in offered DFMD shall be rugged enough to withstand variation in mains voltages and frequency over a long period times so that the failures in the equipment due to power supply are minimized.	
23	Documentation: - Operations, Technical & Maintenance Manual shall be Supplied to each site. (Hard & soft Copy)	
24	Static Metal Compensation: - It may be necessary to install DFMD closed to fixed sheet or piece of metal which form part of the building or its fitting or 1 meter a part from another DFMD of different make. DFMD shall compensate for presence of such metal of DFMD & its performance shall not be degraded by the presence of metal/DFMD.	
25	Warranty	3 years

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
PRE- FABRICATED SECURITY CABIN FOR INSTALLING BAGGAGE SCANNER AND SETTING UP FRISKING POINTS

- **CABIN: The cabin shall be fabricated from CRCA quality steel duly welded, comprising of base frame, peripheral structure, self draining roof, entry doors and windows. The eight corners shall be sufficiently strengthened to facilitate transportation, lifting and placing.**
- **BASE FRAME : The base frame shall be made of pressed mild steel channel section. The main structural element shall be of 100 mm x 50 mm "C Channels and cross member shall be of "C channels section size 75 mm x 40 mm. 5'' legs ot all four corners.**
- **SIDE AND END WALLS : The side and end frame shall be made out of pressed sections of suitable profiles/ pillars of sufficient strength. Exterior wall shall be made up of 18 swg(1.2mm) CRCA specially corrugated sheet whereas 9 mm MDF board will be used for interior walls. The steel sheet shall be treated for corrosion resistance. Panels shall be vertically corrugated, sheet shall be continuously welded to top side and base structure so as to offer better strength to weight ratio. All gaps will be sealed at edges and at seams, bottom etc to prevent ingress of moisture.**
- **FLOORING SYSTEMS : On the bottom frame 18 mm thick plywood, bison panel/ cement fiber board. Shall be fixed by means of self taping screw. PVC vinyl flooring shall be fixed on the panel.**
- **ROOF : Self draining type roof shall be made out of 18 swg thick galvanized sheet, adequate roof bows are to be provided> Roof shall be adequately cambered for draining of rain water. Interior panceling shall be done in 9mm MDF board with adequate insulation.**
- **EXTERIOR WALLS. : 1.2 mm thick CRCA corrugated steel sheets.**
- **INSULATION : (1)Insulation get fill in between exterior & interior walls**
  to control heat inside the cabin.
  (2)Rock wool density of 64kg/m3.
  (3)Side wall and celling 50mm insulation fillings.

8- INTERIOR WALLS : Interior walls will be made of decorative 9mm thick both side laminated(MDF) boards.

9- DOOR : (1) steel door frame insulated with rock wool.
(2) Door Closer.
(3) Handles and hold draft.

		(4) Door with locking arrangement.
10.	**WINDOW :**	**(1) Aluminum Double shutter sliding windows.** **(2) Powder coated.** **(3) 4mm tinted glass.** **(4) With safety grills.** **(5) With monsoon shed.**
11.	**WIRING :**	**(1) 220-240V 50HZ** **(2) Insulated polycab copper wire.** **(3) All conceal wiring.** **(4) Modular switch & sockets.** **(5) Bulkhead 1 NO.** **(6) 5 Amp. socket.** **(7) Internal CFL tube lights.** **(8) Main switch board besides the main door entry.** **(9) Main power input socket with MCB 1 No for outside cabin.**
12-	**LIFFTING HOOKS :**	**Hooks at all corners of cabin for easy lifting and shifting.**
13-	**EXTERIOR PAINTING :**	**Epoxy zinc phosphate & synthetic Epoxy paint for final 2 coats.(corrosion free and fire proof paints) shed oxferd blue & milky white.**
14-	**Warranty -**	**Three Years.**

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B.D.D.S & OTHER SECURITY EQUIPEMENT FOR SINGHSTH 2016
(UJJAIN, INDORE, MAHESHWAR & ONKARESHWAR)

TECHNICAL SPECIFICATION OF
RANGE FINDER

S.no	SPECIFICATION	Discription
1	Magnification	6x
2	range	5m-900m
3	Battery	single CR 2 3V
4	Carry Case	included
5	field of View	122m @100m
6	Eye relief	0.5 in
7	Field of View	angle 7
8	Angle Range	+90
9	weight:	200 gms approx.
10	Dimension	40mm x 100mm x 70mm
11	water resistant	Should be water resistant
12	Certification	CE/ UL Certificate Required
13	Warranty	Three Years